

From The Staff:

WTFDA Headquarters, P.O. Box 97, Calumet City, IL 60409

1981 WTFDA Convention...Inserted in this VUD issue is the 1981 WTFDA Convention Registration Form. If you have been thinking of attending this year's gathering, now's the time to act. Use the form to let host John Zondlo know of your intentions. It's time to make those summer travel plans, and this year's centrally located site in Oklahoma City should fit in well with anyone travelling cross country. More details appear on page 14 of this issue. You won't want to miss this one! Oklahoma City? A capitol idea!

SUPER AURORAL ACTIVITY...Many DXers were expecting a large amount of auroral DX activity this spring, and it appears as if they're going to get it. In mid-April, a huge solar flare was producing what national media called one of the greatest visual displays of "northern lights" in history. Be alert--if you live in a northern area, sudden-starting auroral-induced E-skip openings can take place at this time of the year.

GET READY FOR E-SKIP...This month's cover should also help remind you that it's time for the regular E-skip season to get underway. Are you ready for it? Some skip seasons start late in the month, others get underway early--but those first few openings can take even the most experienced DXer by surprise. We hope you're checking for Es as you're reading this!

WHAT A DEAL!...With the price of almost everything else going up lately, we urge you to check out the special offer on page 27. With a limited number of EPM and QNDAS FM guides still left, we're determined to give FM DXers a bargain with a package of both books for only \$4.00 while the supply lasts. Just in time for the FM Es season.

BITS: Morrie Goldman's announcement on the new WTFDA TV STATION GUIDE should be in next month's VUD, with word on price...We're happy to say that VHF UTILITY DX editor Pat Dyer is out of the hospital...WESTERN TV DX editor Fred McCormick sends word that a lack of DX reports has prevented him from doing a column again this month...

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MAILBOX

John Zondlo
1802 N. Rockwell,
Apt. 107
Bethany, OK 73008
(405) 787-3717
Deadline: 5th

New Member:
Norbert Kaiser

Unterer Kreuzweg 6

Oerlenbach 1, West Germany

Renewals:
John Bolduc, Fred Born, Danny Buntin, John Callarman, Tom Cornell, Richard Eckman, Bill Grant, Glenn Jacobs, Fred Nordquist, Jim Pizzi, Rick Samford, Richard Steinberger, John Sulak, Phil Sullivan, Verrell Tallet, Pete Taylor.

Renewals Due in June:
Richard N. Allen, John Basehore, John Blue, Andy Bolin, Jim Brann, Walt Breville, Tim Cronin, John Demmitt, Mike DeRoo, William Eckberg, Lawrence Glass, Dave Hascall, Thomas Holmes, Jim Hopkins, George Jensen, Michael Lapinski, Roland Lindblade, David McBride, John S. Phillips, Zbigniew Pianka, Edward Ritchie, Jr., Ron Schatz, William R. Smith, Steven Sprachman, Martin Theil, Alphonse Tobia, Mel Wilson, Tracy Wood.

Tidbits.....

WTFDA member Don Voegelé is currently an electronics technology instructor at the College of Marin, Kentfield, CA, 94904 (near San Francisco). He's looking for a similar position for September 1981. Don got interested in electronics through his TV DXing interest near Buffalo. He's an experienced electronics technician and teacher with a communications emphasis. If you have any leads as to openings, write Don, or give him a call at (415) 485-9531.

One of the most respected DXers in Europe, Paul van Rossum, has some comments for us this month on DXing in Europe. He's the editor-in-chief of the bulletin of the Benelux DX Club in the Netherlands, the leading TV-FM club in Europe (they also cover several other bands). We'll likely feature Paul's comments in several upcoming issues: "As an ex-resident of Los Angeles - or perhaps I should say half a dozen cities surrounding this great metropolis - I am quite familiar with the FM and TV situation in your country. By the way, never knew about the existence of your club then, and even if I had I probably wouldn't have joined as the big mountains surrounding LA combined with the vast quantity of occupied frequencies limited DX, if you could call it so, to reception of Santa Barbara and San Diego/Tijuana stations."

One problem I found time after time in LA was overload on FM. I'm sure this will happen to just about anyone living within a couple of miles of a reasonably strong transmitter, so in tests of tuners for FM we let this play a major role. We tested enormously expensive receivers as well as more normal priced ones (Revco B760, Sansui TU-X1, Sony's STA-7B, Philips AH 799, Nikko Gamma 1, Siemens RS 555, Yamaha T2, idem CT 7000, and the superexpensive Klein and Hummel FM 2002 costing \$3,000, as well as top-of-the-line products of Luxman, Akai, Kenwood, Aiwa, Accuphase and National/Panasonic, just to mention some). Directing an 8 element FM antenna, of course not amplified, straight at the transmitter of Iopik-Ijsselstein (3 x 50kw), none of the tuners tested, except for one, was capable of handling the strong signal without creating by-products over the entire FM range. The only set that could handle literally any signal was the Technics ST 9030, a simple, moderately priced and very clean looking machine. Recently it has, unfortunately, been taken off the market by the importer here, but in neighboring European countries it still is widely available. Two bandwidths, and very good specs (such as image rejection of 135 dB!), we, or I should say the more technically gifted people within our club, think that the excellent performance of this set is largely due to its 9 circuit mechanic tuner, and double mixer in the front end. We'll have more from Paul in the next Mailbox.

Be sure to make your plans now to attend the 1981 WTFDA convention in OKC. You'll find a great mixture of big city and wild west in the capital city. See y'all next month.....73.....

REVIEW:

T.E.N. FM/AM/FM-MPX AUTO RADIO

by Mark L. Lewis

In the past fifteen years, I have rarely been surprised by new receivers introduced into the market. Like many DXers, I am an urban dweller. The trend over the past decade and a half, in Canada, has been to fill all available FM channels, and decimate the UHF bands with many high-powered non-id repeaters owned by C.B.C. As a result, my ability to DX has decreased substantially. In point of fact, it has now gotten to the point where I am in the final stages of withdrawing from this past-time. Without dwelling upon my DXing problems too much, I'd like to set up the scene a little: I presently live about 5 km north of the C.N. Tower. At present, seven FM stations transmit from the tower. They are so close that the strobe lights on the tower light up my dining room in winter when there are no leaves on the trees. The ERP from the FM stations alone amounts to over 245 kw. Add to that an additional 49 kw from CKO on a nearby building. I would estimate that the signal levels exceed well over 120 dbu for FM. Add to that the TV rf on channels 5, 9, 19, 25, 47, and 79, and you have a fantastic amount of RFI. I have not added in the several dozen regional stations at 50-70 km. All in all, DXing is not easy within the shadow of the CN tower. A serious DXer would probably move, but my wife and I are city people and our home is within ten minutes of our offices. Furthermore, although in the heart of the city, we are located on a natural ravine filled with wildlife, so it is very much like living in the country.

My attempts in achieving "semi-local" reception using my AJ-15 receivers has met with virtual disaster. We live in an apartment so roof-mounted antennas are presently out of the question. The over-load from the CN Tower is so severe that even with wave-traps the situation is hopeless. One receiver at the rear of the building is literally shielded from the tower by the building. Using an omni-directional antenna on the north balcony, I have been able to receive a few stations and a limited amount of DX. So much for the old reliable AJ-15's.

Imagine my surprise when I purchased a new Toyota about four weeks ago and found a DX-quality receiver as "standard equipment". As you may know, the Japanese auto-makers are now including stereos in their premium model cars at no extra cost. When I took the car for a test-drive I was rather impressed, but skeptical. Given the fact that I had to trade in a Ford "lemon", and have refused to purchase another North American car after my problems with Ford, I was what might be referred to as a "captive market" ie. I couldn't quibble over the factory-equipped radio.

The Toyota is equipped with a radio which has the Trademark "TEN". I have done a considerable amount of city driving in the past four weeks and evaluated the radio. First the good points:

- 1) The receiver is perhaps the most sensitive and selective I have ever heard. There is virtually no over-load or imaging, except with in about 1.5 km from the CN Tower. I would estimate that the image rejection well exceeds 110 dbu!!!
- 2) The vernier-type tuning requires approx. 5.5 turns for a full 20 MHz FM band. That means the knob tunes approximately 1 MHz per $\frac{1}{2}$ turn. Match the tuning system to the selectivity and that means that there are actual "blank" spots between your local stations and alternate adjacent channels. For example there is a space between WACJ 104.1 and CHUM-FM 104.5 @40 kw.

REVIEW OF T.E.N. FM/AM/FM-MPX AUTO RADIO

3) Between those local and regional channels, are the "spaces" where the DX hides. At 2 km from the CN tower, I can always receive CBOK-FM Kingston at approximately 150 miles. I can also receive the new Peterborough ont. CBC repeater on 93.5 @90 miles; remember, we have a local at 94.1 @ 2 km, and a Buffalo station at 93.7 MHz. That's selectivity!!!

4) Most other stations out to 150 airmiles are usually there! Remember, this receiver is fighting off 120 dbu+ of imaging etc. @ 2 km. What happens, you may ask, when you approach "ground zero"? Well, at the base of the CN Tower, my Craig receiver used to go into "hysterics" and even with "DX" switch engaged, nothing was discernable for about 1 km each side of the Tower. With the TEN, all you have to do is to trim the outside antenna a little, and you can receive stations out to about 75 miles at "ground zero." Fortunately, on the Toyota, the antenna is on the driver's side along the window, so adjustment requires no effort.

5) All right, so selectivity and sensitivity are good, but what about stereo reception? The receiver appears to have a terrific P.L.L. stereo decoder. Even weak \$ stations will trigger the MPX circuits. The receiver has among the best s/n and quieting curves which I have ever witnessed. (that is fortunate, as there is no \$ defeat switch) The received signals are wide enough, (even weak signals) so that you can fine-tune for maximum signal to noise. Stereo separation and frequency response are superb. Toyota's idea of speaker placement is not satisfactory however, (in the rocker panels) and I will probably install better speakers in the future.

COMPLAINTS

(i) No \$/mono switch. There are times when extremely weak \$ signals trigger the PLL, and induce a little too much noise for identification or ordinary listening. While this is a rare problem, it is a problem nevertheless. Possibly a switch could be installed.

(ii) No "DX" attenuator switch. Not really a problem, because I do not think that there are many test areas like downtown Toronto. You could add a motor driven antenna to "trim" and attenuate. That seems to be the solution. Or, you could install a mechanical tunable trap at the receiver.

(iii) Dial calibration. This is my greatest displeasure. Despite the vernier tuning, the dial is not well calibrated. 106.5 appears to be 108. I may be able to adjust the dial a little, but for now, using locals or semi-locals as beacons will suffice.

(iv) Pushbuttons: There are only five pushbuttons; 3-fm, 2-am. The buttons themselves switch the bands. That means if you have the 3-fm buttons set for 98, 103, 106 MHz, you will have to manually tune down to 88 from the 98 button. Likewise if you AM DX, your buttons will have to be judiciously chosen. Unlike many FM sets though, the buttons are highly accurate once set, even in -20 Celsius weather.

(v) Tuning, volume, tone, balance controls: They are right-left, unlike most receivers with volume on left, tuning on right. You have to get used to that.

FINAL SYNOPSIS

The T.E.N. receiver is a sure winner. In the past decade the Japanese car makers have put top quality components into their automobiles, when others have taken those components out. One other bonus is that the radio is mounted in a swivel console so that either the driver or the passenger can operate the radio without interfering with the gear shift. The stereo-phonics performance will please even ardent non-DXer audiophiles. The receiver has good power output and one of the best tone-controls I have yet seen. Side-by-side performance with the Heathkit AJ-15 and the Craig line is telling; no contest with the T.E.N.

One other point, when the car was driven further from the CN Tower, to about 25 km from "ground zero" the radio really performed. Very weak adjacent channel signals to 200 km were heard under normal winter conditions. Oh yes, the Toyota people seem to have succeeded at ignition noise suppression and windshield wiper noise suppression. Two of many problems that Ford did not master with their Mustangs. These two noise problems can make or break a car system for a DXer.

Mark L. Lewis, 600 Lonsdale Road, #6, Toronto, Ontario, Canada, M5P 1R7

Handicapped Aid Program

Midwest Representative:

Thomas D. Haskett, 3831 Hendricks Pl., Gary, IN 46408



The Handicapped Aid Program is currently seeking persons who would like to be a friend to a Handicapped DXer in their state, city, or community.

The only prerequisite is to want to help a fellow DXer with problems, correspond, advise, and if possible, visit.

Interested persons should contact HAP Field Operations Co-ordinator Thomas D. Haskett, 3831 Hendricks Place, Gary, IN 46408, (219) 981-2465.

STATION BREAK

c/o Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

WTFDA member ads only. 3 line or 30 word limit.

FOR SALE - JFD APM-2 Powermate VHF(only) & Winegard RD-830 UHF/VHF antenna-mounted pre-amps, both for use in rural (non-metro) areas, both like new, with hardware. Both \$15.00 each, you pay shipping. Ed Kowalski, 3300 Chesterfield Road, Philadelphia, PA 19114.

TRADE - Beginning stamp collector would like to trade duplicate domestic/foreign stamps. Charles George, 6407 Howard, Dallas, TX 75227.

Your non-commercial ad can appear in the VUD free of charge! Got a piece of gear you'd like to sell? Looking for something? Advertise in STATION BREAK.



FM NEWS Bruce F. Elving

Editor - 4515 Avenue "E," Kearney NE 68847

Headlines are from a headline I am using on trial; it has only one supplied font.

New

AL Birmingham *91.9 600 h.v; 680' g; Glen Iris School, to operate Monday, Wednesday and Friday and alternate Sundays, sharing time with previously-announced Birmingham 91.9 grant to SE Bible (1350 h.v; 447'), which will operate Tuesdays, Thursdays, Saturdays and alternate Sundays
AR Fairfield Bay (on one of AR's lakes-look it up!) 106.3 3000 h.v; 290'; rock format
CA Blythe *88.5 10 watts; Spanish/España la Roza
CA Desert Hot Springs K296BK 107.1 \$, g (KECR 93.3 El Cajon CA translator)
CA Saratoga KBAY-1 100.3 \$, m 10 w. Directional 130'. This grant will exist side by side with K261AR 100.1 in Saratoga (a KBAY 100.3 FM translator, which will be only 1 watt with a directional lobe of 210' from the same site as KBAY-1).

FL Fort Myers Beach 99.3 3000 h.v; 300'; m
IA Fort Dodge K276BE 103.1 g (KRGs 104.9 Spencer IA licensed FM translator)
MO Monroe City 101.7 2400 h.v; 330'
NE Auburn 105.5 3000 h.v; 100'; m
NV Sparks 100.9 3000 h.v; -385'; country & rock
WV Bethlehem 105.5 3000 h.v; 300'; rock
WA Chelan 93.5 165 h.v; 1040'
WI Whitehall 102.3 1550 h.v; 400'; rock
MEXICO Ciudad Juarez XHGU 105.9 \$, 60000 h.v; -223', ON AIR, "FM 106 Estereo," replaces never-built XHGH.

Deletions

FL Miami WMJX 96.3 (interim applicant has filed for use of that channel until a final winner is announced; the channel itself is changing to 96.5)
MO St. Louis KOMR *89.3-confirmed by phone
OFF THE AIR BUT NOT DELETED:
MO St. Louis KB DY *89.9

Facilities

AK Anchorage KSKA *103.1 135' (3000 h.v)
AK Fairbanks KAYY, "Stereo K-101," ON AIR, -130' (25000 h.v), soft rock, 24 hours
CA Sacramento KWOD 106.5 500' (50000 h.v)
CA Turlock KCSS *91.9 150 h.v; 60'
CT Berlin WERB from 89.3 to *97.3 24 w.; -69'
FL Orlando W255AA 98.9 (from W228AC 93.5)
FL Pensacola WOWW 107.3 470' (100000 h.v) [300']
FL Titusville WPLO *89.1 (from 89.3) 3000 h.v; /
ID Grangeville KORT-FM 92.7 410 h.v; 710'
IL Godfrey WLCA *89.9 112' (700 h.v) [160']
IL Greenville WGRN from 89.3 to *89.5 225 h.v; /
IL Matteson WLKL from 90.3 to *89.9 1300h.v; 205'
IN Fort Wayne WBCL *90.3 40000 h.v; 460'
LA Baton Rouge WFME 102.5 100000 h.v, 1260', directional
ME Presque Isle WOZI 101.7 1350 (h); 420'
MD Hagerstown WWCS 106.9 15500 h, 13500 v (340'), presumably deleting directional antenna
MI Iron Mountain WJNR 101.5 (from 103.9) 1200 h.v; 615'
MI Kalamazoo WIDR *89.1 100 watts h.v; 180'
MN Moorhead KQWB-FM 98.7 580' (100000h.v), deletes talking farm news in favor of machine data (TX) on its SCA at 87 kHz.
MN Winona KQAL *89.5 1320 h.v; -150'
MO Columbia KWWC *90.5 1250 h.v; 95' adds \$
MO St. Louis KADI-FM 96.3 550' (100000 h.v)
MS Laurel WNSL 100.3 30000 h.v; 400'
NV Las Vegas KNPR *89.5 1580' (5000 h.v)
NV Reno KNEV 95.5 60000 h.v directional, 2270'
NJ Trenton WKXW-FM 101.5 7500 h.v; 830'
NY Brentwood WXBA *88.1 (from 88.5) 180 (h); 53'

NY Buffalo WACJ 104.1 390' (50000 h.v)
NY Oneonta WONY *90.9 118 (h); -72'
NY Nyack WNYK to be *88.7, not 91.3, g; not yet on air; station told me they'd rather not be listed in FM ATLAS, as they are a student training station for pastors and missionaries, but I told them I have to list all FCC-authorized FM stations.
NC Greensboro WQFS from 90.7 to *90.9 1900 h.v; 200 feet above average terrain
OH Ashland WRDL from 89.5 to *88.9 3000 h.v; 170'
OH Dayton WWSU from 88.5 to *106.9 8 watts horizontal and vertical; 210'
OH Sandusky WCPZ 102.7 10000 h.v; 140'
OR Prineville KIKJ 95.3 1100 h.v; 450'
PA Frøland WQEQ 103.1 630 h.v; (580')
PA Mansfield WNTS *89.5 115 h.v; -340'
PA Shippensburg WSYC *88.7 130 h.v; 155'
RI Coventry WCVY *91.5 200 h.v; 36'
SC Laurens WGXL 100.5 1280' (100000 h.v)
SD Mitchell KMIT 105.9 65000 h.v (310')
SD Pierre KNEY 95.3 3000 h.v; 300' [440']
TN Memphis KWAM-FM 101.1 100000 h.v; /
TX Canyon KWTS *91.1 125 (h); -9 feet
TX Kingsville KTAI *91.1 100 (h); 99 feet
TX Odessa KUFO 97.9 100000 h.v; 360'
VT Middlebury WRMC *91.7 100 h.v; -37'
WA Bremerton KWWA 106.9 30000 h.v; 1430'
WV Huntington WMUL *88.1 -55' (175 h.v)
VI Frederiksted WVIS 106.1 9000 h.v; 910'
PR Carolina WOLA 107.7 1090' (50000 h.v)

NY Buffalo WACJ 104.1 390' (50000 h.v)
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TX Odessa KUFO 97.9 100000 h.v; 360'
VT Middlebury WRMC *91.7 100 h.v; -37'
WA Bremerton KWWA 106.9 30000 h.v; 1430'
WV Huntington WMUL *88.1 -55' (175 h.v)
VI Frederiksted WVIS 106.1 9000 h.v; 910'
PR Carolina WOLA 107.7 1090' (50000 h.v)

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FCC TV NEWS

Bill Fahber
336 Atlantic Street
Bridgeton, NJ, 08302

CHANGES IN CHANNEL ASSIGNMENTS (from the Federal Register)

DELETE:	ADD:				
CO Alamosa 3-	CA San Jose 65z	MT Roseman 7z	An up-to-date		
FL Boca Raton *14z, *62+	Riverside 62z	Butte *2-	list of the FCC		
Sebring *27z	San Diego 69z	OH Mansfield 68-	Table of Tele-		
W. Palm Beach 25+, 53z	CO Colo. Springs 3-	Newark 51z	vision Channel		
MI Lansing 36+	FL Boca Raton *63z	Sandusky 52z	Assignments		
Saginaw 45-	Hollywood 69z	Toledo 36-	will be avail-		
MT Anaconda 2+	Orange Park 25-	OR Portland 40-	able to the		
Butte *7-	Sebring *48z	TX Irving 49z	public soon.		
OH Marion 68-	W. Palm Beach 29+, 61z	UT Price 3+	More informa-		
Newark 52z	KY Campbellsville 34z	Vernal 6z	tion on that in		
Sandusky 51-	Danville 56z	WA Vancouver 49z	next month's		
Toledo 54z, 60-	Lexington 62z		column.		
UT Price 6z	MI Lansing 47z	+z- Offsets			
Vernal 3+	Saginaw 49z	* Noncommercial			

In addition to the above additions and deletions, the following changes were made affecting commercial status of existing stations: La Grande, OR 13+, *16z
Late note: add: Laurel Hill, N.C. 57+ Crossville, TN 20+, *55+

CONSTRUCTION PERMITS GRANTED BY THE FCC FOR BROADCAST STATIONS (Ref: Broadcasting)

St. ch. C.L.	ERP	HAAT City	vis. feet	St Ch C.L.	ERP	HAAT City	vis. feet
AL 15 WPMI	2570	1630 Mobile; Hess Broadc'ng		TX 23	500	1470 Brownsville; TDSol	
10 WBIQ	316	1046 Birmingham; Ala. ETV		VA 63	1660	681 Richmond; CBN	
41 WIIQ	447	1082 Demopolis; Ala. ETV		35 WRHPTV	3090	740 Richmond; NCC	
26 WAIQ	229	590 Montgomery; Ala. ETV		WA 15 KCKA	603	2130 Centralia; Tacoma	
AK 4 KJNPTV	19	1620 North Pole; Ak.Evang.		WV 46 WLYJ	28	796 Clarksville; X'n NCC	
AZ 7 KUSK	9	2814 Prescott; Wm.H.Sauro		WI 30	550	960 Milwaukee; V.X'n Y	
CA 50 KFTY	300	3079 Santa Rosa; Sonoma BCg					
FL 61 WFGC	830	480 W.Palm Beach; Wilshire					
30 WSPFTV	631	968 Ft.Myers; S.Fla Univ.					
43 WKNA	1780	1009 Melbourne; Southern					
42 WPPF	1290	1971 W.Palm Beach; Pub.BC.					
GA 24 WWLG	1280	802 Macon; Russell-Rowe					
HI 26 KSHO	11	2170 Honolulu; Mauna Kea					
30 KHAITV	284	-75 Honolulu; Sunset Com.					
IL 27 WDDDTV	152	529 Marion; D.F.Doelitzsch					
IN 26	1510	302 Terre Haute; Ind.St.U.					
43 WKOI	1349	270 Richmond; Tri-State Xn					
KS 9 KSWKTU	316	1270 Garden City; Jr.Collge					
LA 31 KLAXTV	1000	1360 Alexandria; Cypress					
25 KLPA	1070	1360 Alexandria; La.ETV Au.					
20	2450	1020 New Orleans Coastal TV					
24 KLPB	2128	1595 Lafayette; La.ETV Auth					
18	1260	1537 Lake Charles La.ETV A.					
MO 40	62	372 St. Louis; Double Helk					
33	579	1634 Springfield; X'n Ctr.					
NV 21 KAMETV	794	620 Reno; Page Enterprises					
NJ 53 WWACTV	1832	465 Atlantic City; AC TV					
NM 14 KGWS	1410	4190 Albuquerque; Galaxy SW					
NC 19	1393	982 Jacksonville; Univ. NC					
OH 67	138	290 Canton; Ray A. Rogers					
52 WSFJ	21	395 Newark; X'n TV of Ohio					
OK 23 KOKI	2238	1313 Tulsa; Tulsa 23, Inc.					
14 KTBOTV	790	522 Oklahoma City; Trinity					
OR 22	1702	1187 Salem; Greater Willam					
SC 57 WCCTTV	1673	573 Columbia; Car.X'n BC'g					

Subscription Television (STV) granted

CA 48 KSTS	San Jose
IL 26 WCITV	Chicago
44 WSNS	Chicago
MD 54 WNUVTV	Baltimore
MA 27 WSMWTV	Worcester
MI 31 WRHT	Ann Arbor
MO 30 KDNLTV	Saint Louis
OK 43 KFHCCTV	Oklahoma City
TX 33 KBNBTV	Dallas

Subscription Television denied:

TX 20 KEON	Houston
MN 23 KTMATV	Minneapolis

Television Broadcast Licenses Granted

IL 55 WBHW	Springfield
MI 8 WGTQ	Sault Ste. Marie
NC 45 WGNW	Winston-Salem
ND 6 KSRE	Minot
PA 38 WOFC	Altoona
TN 22 WCTE	Cookeville

News articles were contributed by Ken Simon, Lake Worth, FL; Paul Gaines, Detroit, MI; John Combs, Orlando, FL; Danny Buntin, Stillwater, OK, and possibly others (it got mixed up, names weren't always with the articles, and some of the articles didn't match geographically.)

FCC TV NEWS

CALL LETTERS GRANTED-NEW STATIONS

AL WWSW	66 Opelika; Wardean, Inc.
WTTO	21 Homewood; Chapman RadioTV
WPMI	15 Mobile; Hess Broadc. Corp
AK KJNPTV	4 North Pole; Evang.Miss.Fp
AZ KUSK	7 Prescott; Wm. H. Sauro
CA KFTY	50 Santa Rosa; Sonoma Broadc
FL WIYE	55 Leesburg; Sharp Comm. Inc.
WFLX	29 W. Palm Beach; Malrite
WFGC	61 Palm Beach; Wilshire Corp
WWPB	42 W. Palm Beach Pub.BC'g Fd
WKNA	43 Melbourne; Southern BC'g
GA WWLG	24 Macon; Russell-Rowe
HI KHAI	20 Honolulu; Sunset Comm.
KSHO	26 Honolulu; Mauna Kea BC'g
IL WBLN	43 Bloomington; Grace Comm
WBHA	66 Joliet; Focus Broadc'g
WDDTV	27 Moline; Dennis Doelitzsch
IN WKOI	43 Richmond; Tri-State X'nTV
KS KSWKTU	9 Garden City; Junior Collg
KSMHTV	14 Hays; Smoky Hills Pub.TV
KY WTSF	61 Ashland; Tri-State Family
LA KLPB	24 Lafayette; La ETV Auth'ty
WLBP	27 Baton Rouge; La ETV Auth.
KLAXTV	31 Alexandria; Cypress Comm.
KLPA	25 Alexandria; La ETV Auth.
KNANTV	39 West Monroe; R.D. Pinton
MA WGTDTV	66 Marlborough; 66 Corp.
MT KOUSTV	4 Hardin; KOUS-TV, Inc.
NV KAMETV	21 Reno; Page Enterprises
NM KGWS	14 Albuquerque; Galaxy SW
NY WFWY	43 Syracuse; (WONH)
NC WKPT	40 Fayetteville; F'vl.Telev.
OH WSEFJ	52 Newark; Christian Telev.
WGNTV	51 Sandusky; Christian Faith
OK KTBOTV	14 Oklahoma City; Trinity BC
KVTU	23 Tulsa; Tulsa 23
KOKI	23 Tulsa; Tulsa 23
	(KOKI is more recent)
KGCTTV	41 Tulsa; Tulsa TV 41
PA WWSCTV	57 Philadelphia; Radio BC'g.
RI WSTG	64 WNET (It's bad enough they applied for the same call letters as ch. 13 in New York, only 125 miles away, but the FCC had to go ahead and approve it!)
SC WCCTTV	57 Columbia; Car. X'n BC'g.
WHMC	23 Conway; S.C.ETV Commis'n
WRETTV	49 Spartanburg; S.C.ETV C'n
TX KTWSTV	27 Dallas; Liberty STV
KTXA	21 Fort Worth; Channel 21 Inc
KEON	20 Houston; Channel 20, Inc.
VA WRHPTV	35 Richmond; Neighborhood Cp
WMSYTV	52 Marion; Blue Ridge ETV

REPORTS SENT IN FROM MEMBERS OF WTFDA

Miami, Fla. WKID-TV, ch. 51 will begin broadcasting "R" rated movies five nights a week through an additional service of ON/TV, a service of National Subscription Television. The movies will be scheduled after its regular programming. The cost is only \$4.95 extra. (Imagine that! The wages of sin is now available in monthly installments!) They also offer a key lock on the decoder for parents concerned about their children watching it.

MAY, 1981

CALL LETTERS GRANTED: CHANGES IN EXISTING STA.

AL WTVMTV	13 Binghamton; WAPITV
CA KTZO	20 San Francisco; KEMOTV
KESQ	42 Palm Springs; KESQTV
CT WFSB	3 Hartford; WFSBTV
GA WRBL	3 Columbus; WRBLTV
MA WINE	6 New Bedford; WTEV
MT KTVG	12 Helena; KTCM
NV KTNV	13 Las Vegas; KSHOTV
NM KLKK	23 Albuquerque; KMNTV
NY WSTMTV	3 Syracuse; WSYRTV
WETMTV	18 Elmira; WSYETV
NC WPCQTV	36 Charlotte; WRETTV
WJTM	45 Winston-Salem; WGNNTV
OH WCLQTV	61 Cleveland; WEEG
OK KJRH	2 Tulsa; KTEW
KAUT	43 Oklahoma City; KFHC
PA WHTMTV	27 Harrisburg; WTPA
TX KTPX	9 Monahan; KMOMTV
WV WPBY	33 Huntington; WMULTV
WI WQOWTV	18 Eau Claire; WQOW
WCGV	24 Milwaukee; WCGV

CALL LETTERS APPLIED FOR: NEW STATIONS

DC WQOR	56 Washington; Channel 50, Inc.
FL WSPFTV	30 Fort Myers; Univ. of S. Florida
WCMJ	33 Miami; Miami STV, Inc.
GA WVEU	69 Atlanta; Broadcast Corp. of Ga.
LA KLTLTV	18 Lake Charles; La. ETV Authority
MI WIHT	31 Ann Arbor; WRHT; Satellite Telev.
NJ WWACTV	53 Atlantic City; A.C. Telev. Corp.
NY WFTTIV	54 Poughkeepsie; Family Television
WA KCKA	(two sources have Tacoma School Dist. #10 applying for this in both ch. 15, Centralia and ch. 20 in Tacoma.
KLKRC	?? Vancouver; KLKRC Broadcasting Corp.
WV WLYJ	46 Clarksville; Christian Communicat's
WI WVCY	30 Milwaukee; Wis. Voice of X'n Youth
	Two other references which must have a mistake somewhere are as follows: (1) Superior Broadc. Corp applied and was granted WTJC for its new broadcast station in Baldwin, MS; (2) Forward Television applied for WSAW for its new station in Wickensburg, AZ. Somebody help me on these!

CALL LETTERS APPLIES FOR: CHANGES IN EXISTING

CA KSEE	24 Fresno; KMJTV
KCEO	19 Modesto; KLOCTV
KCSO	19 Modesto; KLOCTV
KRBKTV	31 Sacramento; KMUVTV
KICU	36 San Jose; KGSCVTV
KUSITV	?? San Diego; University Television
FL WECA	27 Tallahassee; WECAVTV
GA WCGT	31 Albany; WTSG
MA WNEV	7 Boston; WNACTV
VA WTKRTV	3 Norfolk; WTARTV

NBC LOSING MORE AFFILIATES! You've probably heard about ABC stealing them. Now CBS also started signing them up. KFSM-TV, ch. 5 in Fort Smith, Ark., is changing from NBC to CBS. Meanwhile presently-CBS KLMN-TV, which operates on ch.24, is left in the cold. In Billings, Montana, KTVQ is affiliated with both CBS and NBC and broadcasting on ch.2; Until now it had been going heavier on NBC programs, but is now carrying more CBS pro-

ming. CBS is also having it out with WMAR, ch. 2 in Baltimore, Md. WMAR often pre-empted prime time network programming for sports, telethons, children's programs, and public information programs. CBS managed to get WBAL to change from NBC without much arm twisting. (WBAL is on ch. 11) Meanwhile WMAR is expected to ask NBC for affiliation.

38+5=TROUBLE! There is one last vacant channel in the Detroit: Ch.38. And five groups are battling for the right to operate on that channel. They are Trinity Television (a Christian organization); Adell Broadcasting Corp (mostly owned by Franklin A. Adell, who is Jewish); Macomb Broadcasting Co. (headed by Jerry L. Blocker, who is black); South-eastern Michigan Television Co. (organized by Stanley B. McDonald, who is a black, and is about half owned by blacks); and APW Enterprises, Inc. (A group of Chicago investors). As you can guess, a diversity of interests (especially Trinity and Adell) has hindered any mergers. One applicant said that the fight could go on for as long as eight years until the FCC or the Court of Appeals make a decision. (ref. Detroit News, 10/22/1980)

CHANNEL 41 IN TULSA PROMISES TO BE DIFFERENT FROM YOUR AVERAGE STATION. To begin, it will be "America's Only Storefront Television Station," with its studio right up front where the public can watch and take part. Its program schedule also promises to be different. Beginning at 7:00 with five hrs. of syndicated (mostly religious) programs. Noon to 5:00 pm is covered with live programming, live interviews, live entertainment, live demonstrations by chefs, experts in real estate, science, medicine, nutrition, etc. "On the Mall" will interview mall walkers, asking their opinions on various topics. Two hours of solid news will be from 5:00 to 7:00 p.m. Best wishes for KGCT in Tulsa, Oklahoma. (Ref: Tulsa Tribune, 2/6/81)

ANOTHER ONE FOR OKLAHOMA. According to a news clipping (no name or date available), Channel 43 in Oklahoma City is supposed to begin broadcasting on October 1 (1980?). They are planning an all-news format from 9:00 am to 5:00 pm, then go STV.

KA2XEH: You've probably heard those letters before in the Eastern TV DX Column. They are the call letters of a new type of translator. Instead of rebroadcasting a distant station's signal on another channel, KA2XEH receives the signal from Westar Satellite. KA2XEH broadcasts of ch. 56 and offers 24 hours of Spanish broadcasting. Another "satellite" began in Denver in February, 1980. This is a step toward the FCC's proposed "low power television" stations. More on that later.

ANOTHER POSSIBLE STEP TOWARD LPTV. Applied Communications Technologies, Inc., a new black-owned corporation, applied for ten new

translators which will be connected by microwave, and will be able to originate programming. (according to this article in Broadcasting, 2/25/80, they are the first to apply for permission to originate programming on a translator beyond emergency announcements and periodic solicitations, but an FCC report on LPTV says that some translators in Alaska are already originating broadcast material.) Their aim is to provide entertainment and informational services geared toward blacks. Some of the FCC's goals are to encourage minority ownership and serve black communities by TV. The ten proposed translators are for Raleigh and Greensboro, N.C.; Norfolk, Va.; Columbia, S.C.; Jacksonville, Fla.; New Orleans; Jackson, Miss.; Atlanta, Ga.; Birmingham, Ala.; and Nashville.

WSET-TV MOVES ITS TRANSMITTER. WSET-TV can greatly increase its audience by moving in closer to Roanoke, Virginia. WSET-TV is presently licensed to broadcast on ch. 13 in Lynchburg, and does not presently reach Roanoke with a decent signal. The significant thing about this is that the FCC's approval of this seems to be in violation of FCC's policy to try to bring UHF to an equal level with VHF. A Roanoke station, afraid of competition, brought up the fact that future use of a UHF channel in Roanoke is less likely if Roanoke can now receive WSET-TV. The FCC had been plagued for years with poor quality of UHF reception, and generally poor acceptance by the general public. (Ref: Broadcasting, no date)

CBS DEMONSTRATES HDTV. A new development by Japanese technology is High Definition TV, which uses 1125 scan lines instead of 525, has a wider picture screen, and will probably have to utilize the GHz spectrum. This system also offers stereophonic sound and enhanced color. CBS recently invited some legislators and federal regulators to a demonstration of this new system. With this system, videotape could eventually replace film in the motion picture industry.

WWAY is back on the air. A National Guard fighter plane destroyed the tower of WWAY in Wilmington, N.C. on Jan. 24, 1981. They are temporarily using a 350 foot high tower until they rebuild their permanent tower. Broadcasting was resumed on Feb. 23.

140 SHORT SPACED VHF TV ASSIGNMENTS TO BE DROPPED IN. The Association of Maximum Service Telecasters is opposing an FCC plan to add 140 new channel assignments, easing the minimum mileage separation rules. AMST has suggested the use of new UHF assignments as an alternative.

PBS TO OFFER STV. PBS has been suffering from internal squabbles for years, and recently added the loss of BBC programs to its list of headaches. Now a proposal to create PSN (Public Subscriber Network) has created more strife.

CHANGES IN EXISTING FACILITIES GRANTED

St	C.L.	Ch	ERP	HAAT	City
AL	WAFF	48	1170		Huntsville
	WCPTTV	33	1120	540	Tuscaloosa
CA	KCBA	35	1070	2430	Salinas
	KEMOTV	20	1700	1270	San Francisco (KTZO)
CO	KRDOTV	13	282	2140	Colorado Springs
DC	WGSP	50	2450	570	Washington (WCQR?)
FL	WHTT	45	2400	1020	Miami
	WUSFTV	16	1620	1010	Tampa
	WAMS	30	2000	990	Jacksonville
	WFLX	29	692	1500	West Palm Beach
GA	WXIATV	11	295		Atlanta
	WVEUTV	69	2630	980	Atlanta
IL	WTVP	47	1410	710	Peoria
	WSNSTV	44	1050		Chicago
	WRAU	19	1620	640	Peoria
KY	WKPC	15	589	860	Louisville
	WKPD	29	145	500	Paducah
LA	WGNO	26	2690	1010	New Orleans
	KLFYTV	10	316	1740	Lafayette
MD	WMDT	47	3470	1000	Salisbury
MI	WRHT	31	1000	1080	Ann Arbor (WIHT)
MN	KAVITV	15	1230	380	Austin
	KTMATV	23	74	1190	Minneapolis
MO	KCPT	19	1050		Kansas City
MT	KOUSTV	4	91	1060	Hardin *
NE	KYNETV	26	398	425	Omaha
NV	KSHOTV	13	316	2000	Las Vegas (KTNVTV)
NJ	WRWB	65	3800	920	Vineland
NY	WXXI	21	1230?	500	Rochester (other source = 906 kw.ERP)
NC	WCTI	12	316	1960	New Bern
	WRETTV	36	1120?		Charlotte (WPCQTV) (other source = 2510 kw. ERP)
ND	KFME	13	245	1130	Fargo
OH	WCLQTV	61	2000	1160	Cleveland (WEEG)
	WFMJTV	21	3720	990	Youngstown
	WGTEV	30	1000	1050	Toledo
OK	KETA	13	316	1450	Oklahoma City
	KFHCTV	43	2000	1520	Oklahoma City
	KFHCCTV	43	1070	1560	Oklahoma City
	KOKH	25	1410	1540	Oklahoma City
	KOEDTV	11	316	1160	Tulsa (other source = 1661 ft. HAAT)
PA	WWSGTV	57	269	1160	Philadelphia
RI	WSTG	64	2140	1020	Providence (WNET)
SC	WIIIB	23	1740	820	Conway
	WRTS	49	1740	970	Spartanburg
TN	WTVK	26	5000	1270	Knoxville
TX	KRIVTV	26	1410	1950	Houston
	KCTV	8	316	1450	San Angelo
	KFDA	10	316	1530	Amarillo
	KTRKTV	13	316	1930	Houston
WA	KCPQ	13	186		Tacoma

YET ONE MORE FOR CBS! WRGB, ch. 6 in Albany was the first station to affiliate with NBC thirty three years ago, and is one of their largest markets (commercially). WRGB signed up with CBS and plans to begin CBS programming on September 25, 1981. The present CBS station there is WAST, operating on ch. 13. WAST has limited coverage because it is short-spaced (too close) with WNET (the real one, not Providence, RI), ch. 13 in New York City.

NOTES ABOUT THIS COLUMN:

INFORMATION AVAILABLE TO ME consists mainly of the Federal Register and Broadcasting magazine. The Federal Register is a daily publication of the Federal Government, and consists of, as far as the FCC is concerned, applications for broadcast stations and for translator stations, notices of competing applications for a particular channel assignment, changes and proposed changes in the table of assignments, and occasional issues involving the FCC, such as LPTV, UHF comparability to VHF, Stereo TV, or treaty matters with Canada and Mexico. Unlike the Federal Register, Broadcasting is a weekly magazine listing the above, and also listing call letter information, changes in existing stations, FCC grants of broadcast and translator applications, and other bits of information. Broadcasting does not include any information about Canada or Mexico. Nor does it tell when stations go on the air, when they change networks, etc. This is why your help is needed. Especially if you have information from Canada or Mexico. So feel free to send in whatever you can to this column.

CATCHING UP: Except for Bill Draeb's column in the past two months, the last time this column appeared was in the January, 1980 issue. Because of limited space, and limited time in which to provide 16 months' worth of information, I felt it necessary to hold off on including applications for broadcast stations and translators, which would fill up half of the VUD, and only very few of which will ever go on the air. I hope to list the more significant translators in a future issue; I'm still working on that. Unfortunately, Broadcasting does not list the power when it lists translators granted by the FCC so I'll have to go back and find the applications for them. Meanwhile, I have plenty of information available on broadcast applications, translator applications, and translator grants (with call letters); If you need information on any in particular, send me a note asking what you need to know and I'll be glad to help.

Also, this is your column, not mine. So if you would like to see any changes or wish to make suggestions, send them in.

NEXT MONTH: A special report of FCC's proposal for Low Power TV. Also, an attempt to catch up on applications for broadcast stations, and a list of significant translator application grants by the FCC. Also, recent happenings from the latest issues of the Federal Register and Broadcasting.

NEEDED FOR THIS COLUMN is a list of television broadcast stations which actually began broadcasting between December, 1979 and now, since that information is not available to me. Send me a list of stations which you know have begun broadcasting since then.

SOUTHERN FM DX

MAY 1981

Danny Buntin
1312 N. Skyline
Stillwater, OK 74074

DEADLINE: 10th

SOME MORE DX FROM LAST WINTER REPORTED

Tim Mcvey, Rt. 3, Box 568, Bolivar, TN 38008 - Jan. to March 31

This is a typical report about typical DX at a very typical time of year in the South. Here in TN, one can expect to hear the same tropo into Texas, Louisiana, and the Gulf Coast. It's all good, legal DXing, but mostly all relogs. One very bright spot, however, came in cold January. My very first DX in 1981 was E-skip, and then things settled back down to spring tropes. Incidentally, my equipment is the same: JVC JT-V22 tuner, Finco FM-5 antenna, Channel Master rotor (the \$45 model which, ha-ha, Radio Shack sells disguised as a "Archerrotor" for \$62) and lots of electronic goodies.

1-20 Es
(Heard 12 from Mexico City, DF, 1320 miles)
1503 XEQ-FM 92.9 music and talk in SS, mono
1508 XEJP-FM 93.7 mor English/talk in L, \$
1511 XHFO 92.1 top-40 mx in English, mono
1512 XHM-FM 88.9 rock in English, 1. e.
Rolling Stones, \$, "Sonido 89"
1512 XBOY-FM classical mx in \$, ex-XEBS-FM
1513 XBDA-FM 90.5 English mr, L announ.,
mono
1515 XHQK 91.3 news in L, mono
1516 XEUN-FM 96.1 classical \$, very strong
1517 XERC-FM 97.7 English pr, \$, playing
Rod Stewart album
1518 XELA-FM 98.5 heard only talk in L, mono
1519 XHOP 99.3 "echsi-h-pe-o-pe" c, \$
1520 XHBS 104.9 talk in L, mono
1530 MUF rapidly dives to Canal 2 and Canal
4 on TV....
2/28 tr
0900 Houston, TX again, with KYND, KRLY,
KIRK, KLEF, KUHF, KTSU, KTSU 530 mi.
(Logs stand at 764 now.)

Rick Samford, 404 S. McNeill, Burnet, TX 78611 - March 6 to April 8 CST

3-27 (all tr)
0911 KENW 89.5 NM Portales, m
0914 KTM 99.9 NM Clovis
0926 KRQQ 99.1 NM Clovis
0940 KYTX 98.7 TX Amarillo
0944 KBIM 94.9 NM Roswell
3-29
1002 KIXK 106.1 TX Denton-Dallas, k,
ex-KDDC, "The ALL New Kix-106"
3-31
0636 KRRV 100.3 LA Alexandria, Agri-News net.
w/ref. to LA, strong CCI from TX 100.3s
4-2
2359 KGNC 97.9 TX Amarillo, m
4-3
0059 KBIM 94.9 NM Roswell, m, s/off
0100 KENW 89.5 NM Portales
0700 KKQV 103.3 TX Wichita Falls, ex-KNTO, r

The springtime Gulf tropo season, which usually begins in March, has yet to make its presence really felt. In fact, there has been very little in the way of DX from the frequently received areas of LA and southern MS, and, of course, none of the more interesting stuff from AL and FL. While DX from the coastal regions has been shut down, there have been a couple of openings to the high plains of Texas and New Mexico, both weak. 73s, Rick.

Charles George, 6407 Howard, Dallas, TX 75227

On April 3, 11:00 pm, I noticed KSEO-FM 107.1, Durant, OK for the first time. They were running ABC news and had a type of AOR. They were blocking out area KTLR on the same freq. On the Super Snooper I got music, but not sure if it was SCA from KSEO-FM or some local image. I've noticed KIKT 93.5 of Greenville, TX has changed to pop/rock music from c&w when many stations are now doing the reverse. 73's

SPM Editor's comments: Please don't send ground wave reception reports to this column unless there has been a change indicated in the stations' operation which might help another DXer with unID. Bruce Elving's FCC column is also good for that kind of reporting. As DXers we put up enough with ground wave reception without seeing it spelled out in print. More next month. Please report promptly as the new DX season progresses.

NORTHERN FM-DX

Ralph Strobel, editor
2510 E. McGalliard Rd.
Muncie, Indiana 47303
(317) 288-5815
Deadline: the 10th

MAY 1981

For FM DXers in Canada, the Northwest-Central states of WA OR ID MT WY ND SD NE MN
IA MO and states east of the Mississippi River and north of the Mason-Dixon Line.

Robert S. Ross - VE3JFC - Box 4373, Stn. C - London, ON Canada N5W5J2
Equipment: Marantz 2226 B & Panasonic RF 1115 w/rabbit ears and whip.

2/27 tr 2200 WBIV 107.7 NY Wethersfield 3/31 tr 0241 WFXE 92.9 NY Buffalo, ex-WBUF
2217 CHUM 104.5 ON Toronto 0248 WQXR 105.1 OH Salem
3/9 tr 0105 WTOF 98.1 OH Canton 0250 CHRW 106.5 ON London
0110 WDMT 107.9 OH Cleveland (University of Western ON)
0112 WDSY 107.9 PA Pittsburgh 0324 WWSK 106.7 PA Beaver Falls
0125 WERG 89.9 PA Erie 0330 WLQR 101.5 OH Toledo
0140 WBBN 102.5 NY Buffalo 0430 WJOI 93.7 PA Pittsburgh
0143 WDCX 99.5 NY Buffalo 0438 WYFM 102.9 PA Sharon
3/25 tr 0328 WVCC 101.7 PA Linesville 0439 WPHD 103.3 NY Buffalo
0334 WECQ 101.7 NY Geneva 0441 WCCK 103.7 PA Erie
0350 WSEQ 102.3 PA McKean, ex-WMDI 0530 WWSW 94.5 PA Pittsburgh

John Ebeling - 9209 Vincent Ave. S. - Bloomington, MN 55431

DX? Hardly! Only 185 miles away. Rare mode of reception? No - the usual tropes. Unique part-time station? No - somewhat new operation on 24 hours using country format. Low powered station? No - maximum class C of 100KW. What then, makes this catch so unique for me? It is the simple fact that reception of this one station was the culmination of several months of effort. Geography requires that, for any reception north-west to northeast of me, I must work thru from 250 to 500KW from the 5 stations (FM), on the local IDS tower in downtown Minneapolis only 10 miles away. Furthermore, this "catch" is an adjacent channel to a local (93.7), located on the IDS tower. Finally, however, tropes were strong enough to log:

4/2/81 tr 0006 WKKQ 93.9 MN Hibbing, k, with music on SCA

It should be noted (and has been in Elving's column), that the five Minneapolis IDS stations (92.5, 93.7, 99.5, 101.3 & 102.1), have been under an FCC edict to operate at one-half power (50KW each), except between midnight-6 AM to reduce interference pending FCC resolution of the very severe cross-modulation problems. Anyway, WKKQ is my only new catch for the past 32 days. Hope April and early May produce much better results.

'Till next time, 73's. John

Bob Zent - 1835 Fruit St. - Huntington, IN 46750

2/21 tr 2106 WDEK 92.5 IL De Kalb, r 195 3/24 tr 1635 WAMX 93.7 KY Ashland 225
2141 WJEF 91.9 IN Lafayette 82 3/28 tr 2130 WKHQ 105.9 MI Charlevoix, r 280
(local WWSH off)
3/23 tr 1550 WFKZ 93.7 WI Monroe, k 240 1952 WFGH 90.7 WV Fort Gay, (Promo for 250
1844 WHFE 88.5 IL Flossmoor, p 124 "Dr. Who" on WMUL TV 33, Huntington, WV)
2238 KSAY 96.1 IA Clinton, g 260 4/4 MS
2254 WHPO 100.9 IL Hoopston, k 117 1225 KILQ 93.9 CO Colorado Springs 1025
2325 KTOF 104.5 IA Cedar Rapids, g ??? "....in downtown Pueblo..."
This is the first time I have been able to identify an FM station via meteor scatter propagation. Was listening to newscast on KRNA Iowa City when KILQ overrode the signal for about two seconds. Fortunately, they were doing a commercial at the time and I was able to identify because Pueblo is in coverage area of KILQ. Also heard a spanish language station on 93.9 which I'm tentatively identifying as KESS Fort Worth.

Ralph Strobel - 2510 E. McGalliard Rd. - Muncie, IN 47303

3/28 tr 0200 WISM 98.1 WI Madison, r\$, "98-FM," 280 miles
By setting my Heathkit AJ-1510 on 98.3 and using the control box Andy Bolin built for me, I tuned down to 98.1 and heard WISM next to local 97.9 in Anderson, IN. 73, Ralph

1981 WTFDA CONVENTION... OKLAHOMA CITY, JULY 31-AUGUST 2

This is it! The big DX event of the year- the 1981 WTFDA Convention!

This year's convention will have something for everyone. In the works are seminars on TV and FM DXing, station tours, and a technical question and answer session.

The convention will be held at the Ramada Inn, 800 S. Meridian, at the intersection of I-40 and Meridian. Room rates are most reasonable: Single- \$30 per night, Double- \$35 per night, each extra person- \$6. The registration fee will be \$18, which covers such things as the banquet, refreshments, and convention expenses. The banquet menu is undecided, but it looks like it will be either turkey or beef.

Oklahoma City is easily accessible by many different modes. The city will be served by 12 airlines at the time of the convention, with United scheduled to come aboard in June. Other major lines serving OKC include TWA, American, Eastern, Delta, Braniff, Frontier, Texas International and Southwest. Both Greyhound and Trailways serve the city, for those so inclined. And several major highways run through town, including I-40 and I-35. Amtrak does not serve Oklahoma.

Oklahoma City has a number of great attractions to take in while you're at the convention. A new addition to the city is White Water, a water theme park right across the street from the motel. We're also the home of the Cowboy Hall of Fame, a must for lovers of the wild west. Other great places to visit, all within easy range of the convention site, include the OKC Stockyards, the state capitol (the only one in the country with working oil wells on site), and the University of Oklahoma. For you baseball fans, OKC is the home of the 89ers of the American Association, the top farm club of the world champion Philadelphia Phillies. There are also many outstanding restaurants near the motel, including Applewoods, Oklahoma City's million dollar restaurant.

We'll let you know more about the convention as the big weekend approaches. Make your plans now to be in OKC for WTFDA '81!

WTFDA 1981 CONVENTION REGISTRATION FORM

Please complete and mail
as soon as possible and
not later than July 17!

Please include a
SASE for confir-
mation reply.

MAIL John Zondlo
TO: 1802 N. Rockwell, #107
Bethany, OK 73008

Please reserve a motel room for me for the following dates:

July____,____,____, August____,____,____. I would be interested in
sharing a room with one or more DXers: () Yes () No. If yes, do you
have a choice of roommate(s)? _____

() Enclosed is \$18 advance registration fee.

() Will pay at convention.

(Registration fee includes banquet, refreshments, convention expenses.)

If you can provide transportation for other DXers in your area, or along
the way (splitting gas expenses), please explain _____

If you need transportation and would be interested in riding with another
DXer in your area or along the way (splitting gas expenses), please
explain _____

What day and time do you plan to arrive? _____

If arriving by air or bus, please give details (line, number, time, etc.)

If you plan to bring any of the following, please check: () DX cassette

() DX reel-to-reel () videocassette _____format () DX movie

() slides

Name: _____

Number of persons to
be included in this
reservation _____.

Address: _____

City: _____ State/Province: _____ Zip/PC _____

I am primarily interested in: () TV, () FM, () PSB

I would be interested in conducting a seminar: () Yes () No. If yes,
explain: _____

I am interested in going on station tours: () Yes () No

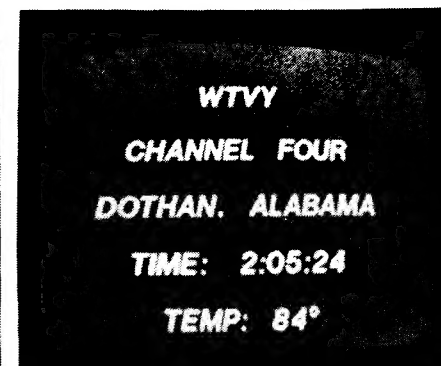
PHOTO-NEWS

Jim Alexander
4 Brook Court
Parsippany, NJ 07054

May, 1981



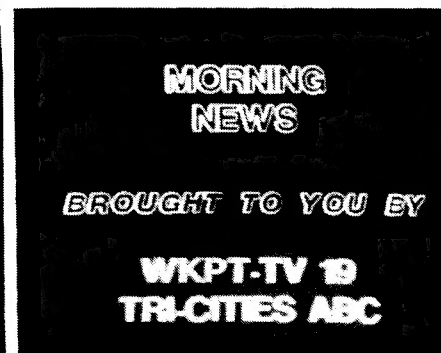
XEW- 2 Mexico City, DF Mexico
1,345 mile E-skip
1/20/81 (McVey)



WTVY- 4 Dothan, AL
300 mile tropo (Combs)



WBRZ- 2 Baton Rouge, LA
E-skip
7/26/80 (R. Grant)



WKPT-19 Kingsport, TN
405 mile tropo (Gaines)



WPGH-53 Pittsburgh, PA
420 mile tropo
7/12/80 (Kramer)

Contributors:

Tim McVey,
Bolivar, TN

John Combs,
Orlando FL

Robert Grant, (photo taken
at Honor, MI)

Paul Gaines,
Detroit MI

Robert Kramer,
Chicago, IL

73 and good DX,

Jim

EASTERN TV-DX

William J. Draeb
Ellis St. R.R.#2
Kewaunee, WI
54216

Deadline: 5th

Eastern TV-DX

Robert Kramer; 4639 N. Albany, Chicago, IL 60625 CST Feb.17-27

17 Tr 1807 WKON-20 MI 240	21 Tr 1220 WIPB-49 IN	"Not bad tropo for Feb-
WKBD-50 MI "	WKON-52 KY	ruary. Hope it's a
WTVS-56 MI "	WKMJ-68 KY 277	sign that the peak sea-
WGPR-62 MI "	WLEX-18 KY 314	son will be good again.
2104 WFUM-28 MI 224	1248 WGPR-62 MI 240	In about 10 days my new
19 Tr 1141 WIHT-31 MI 205	WTVS-56 MI "	rotor will be put up.
Ann Arbor	WBGU-57 OH 200	It's a CDE-AR-22XL. It
20 Tr 2234 WCET-48 OH 250	WIHT-31 MI 205	replaces my Radio Shack
2235 WTVQ-36 KY 314	WEYI-25 MI 222	Servomotor which only
2237 WKEL-22 OH 237	WKBD-50 MI 240	lasted a year. I would
2305 WKIX-19 KY 257	1848 WPTD-16 OH 237	not suggest that anyone
21 Tr 0455 " " "	"Local grade"	but a RS rotor. This
WKRC-12 OH 250	WKEL-22 OH 237	was the second one I
0518 WLEX-18 KY 314	WTVQ-36 KY 314	had. The first was
WHIO-7 OH 237	1930 WCET-48 OH 250	around for a week, long
WKEL-22 OH "	1959 WOSU-34 OH 280	enough to almost make
0545 WLKY-32 KY 277	WCWN-54 KY 257	it through the first
0547 WKYT-27 KY 314	WKON-52 KY	storm it had to endure.
0602 WTVQ-36 KY "	2011 WPBO-42 OH 330	The equipment here con-
1220 WKIX-19 KY 257	2118 WDRB-41 KY 277	sists of a Sony TV-131
WPTD-16 OH 237	26 Tr 2300 WKEL-22 OH 237	13" B&W (used only for
WKEL-22 OH "	2306 WTVQ-36 KY 314	VHF). An RCA 19" B&W,
WTVQ-36 KY 314	27 Tr 0035 WLKY-32 KY 277	model unknown, (used
WKEL-46 KY "	WKYT-27 KY 314	only for UHF), an Arch-
WCET-48 OH 250		er V-185, Archer U-100,

a Blonder Tongue CMA-U (chs.14-59) UHF preamp(used only when the locals are off), various Winegard & Jerrold VHF traps(to eliminate overloading) & a parakeet.(what does the parakeet do??--wd) 73."

Greg Kelley; 211 St. Clair Ave. SW, New Philadelphia, OH EST 2-27 & 3-12

"Guess it's about that time to send in a reception report, although there's nothing great about it. I will send in monthly reports if at all possible.

Still been considering the feed section from DELI to use on the dish. They say my gain will be 21-22 db and should make a big difference in the signal. So, when I might have some extra \$\$\$\$\$, I will send for it.

The city of New Philadelphia is cutting our tree down. The plumber says it's in the sewage pipe. Boy, this house will bake this summer! But it should improve UHF to the south as the tree blocks it. So at least it's not a total loss.

People tell me that Toledo with rabbit ears is normal reception on some of these hills. Perhaps some day we will be able to buy or build a home on a hill. My DX should be a lot better.

Log totals stand at about 136..and will take a long time to build up totals like I had in Virginia. Just a few years ago I managed to log KHGC-5 Mexico City at 1500 miles! That's my record and reckon I'll be lucky to log Mexico from Ohio.

Radio Shack has transfered me to a store 35 miles away....don't think it will pay, but I sure cannot quit! But not looking forward to the long drive.

27 Tr 0800 WIHT-31 MI 150	27 Tr 0800 Detroit U's MI 150	"Just received my
CICO-32 ON 140	1427 WNDU-16 IN 230	WTFDA UHF Translator
WGVC-35 MI 250	WUHQ-41 MI 220	Guide and never real-
WKMR-38 KY 175	WDHO-24 OH 125	ized how many trans-
WUHQ-41 MI 220	WGTE-30 OH "	lators there are in
CKCO-42 ON 150	WIHT-31 MI 150	this area. There is a
WSVN-47 VA 240	WKON-20 MI "	W29-- (WUOC) that
WJBK-2 MI 150	WGVC-35 MI 250	comes in on tropo but
WILX-10 MI 175	1730 WKAR-23 MI 200	no idea where it's at.

Eastern TV-DX

Greg Kelley; continued--- 12 Tr 1115 WKMR-38 KY 175 "DX has been rotten
WPBO-42 OH 128 and can hardly wait
WDHO-24 OH 125 for the DX season to
WIHT-31 MI 150 begin. So that is it
W31AA OH til next month."
(WOSU) P.S.-WCLQ-61 Cleveland
Brie in - codes signal at night. Like to see plans
WSEB-35 PA " for a decoder.

George Rogers; 320 Lafayette Rd., Chickamauga, GA 30707 EST

"It has been a pretty good Winter DX season down here but not much TV-DX in February. Here is what I got:"

1-31 Es 1720 ICR-2 CUBA 845	3-1 Tr 2045 WERC-6 AL 145	"Equipment RCA
2-1 Es 1400 XHRIO-2 TAM 1140	2050 WHMA-40 AL 130	portable TV Mod-
3 F2 1050 TVF-1 41.25	2 Tr 0815 WATL-36 GA 113	el AA 193/SEV.
1115 BEC-1 41.50	(Rare)	I'm looking for-
(both in on 2-14 also)	0817 WANX-46 GA "	ward to a good
Tr 2253 WSFA-12 AL 236	(Rare)	Spring DX season
(WDFE off)	0845 WBMG-42 AL 145	and a great Sum-
10 1r 1202 WVM-9 GA 224	1045 TVF-1 41.25	mer Es season.
(WTVF off)	1050 BEC-1 41.50	Remember, we're
3-1 Tr 1455 WB1Q-10 AL 145	1052 BEC-1A 41.40	gonna have DX
1800 WVM-13 AL "	(N. Ireland)	fun in '81. 73's"

Jeff Wolf; 1131 University Blvd. W., Apt. 701, Silver Spring, MD EDT-EST

8-1 Tr 0800 WBTW-13 SC	8-8 Es 1858 WMT-2 IA 750	8-23 Tr ---WCTI-12 on
0900 WPTF-28 NC	KUSD-2 SD 1050	WWBT-12 feed.
WTVQ-11 NC	Tr 2325 Unid-48 xltr	25 Tr 0725 WJPM-33 SC
WCTI-12 NC	9 Tr 0015 WPTF-28 NC 251	0727 WHIM-27 PA
Es 1737 WPT-2 FL	0025 W25AA VA 114	WRJA-27 SC
2000 Cuba-3	Onanock	0740 WPTF-28 NC
2 Tr 0912 WCTI-12 NC	(WHRO-15 xltr;	1000 W60AB WV
WPTF-28 NC	xlting WLYH.)	2225 W73AS VA
0915 W60AL VA	0100 Unid xltrs	2350 W60AL VA
Onanock	on chs.26 & 53	W41AC VA
(WVEC-13)	xlting WBOC-16.	26 Tr 0740 WCTI-12 NC
2325 W41AC VA	10 Es 2330 KUSD-2 SD 1050	WPTF-28 NC
Onanock	12 Tr 0840 WPTF-28 NC 251	WTVQ-11 NC
(WAVY-10)	15 Tr 0655 WSET-13 VA	0930 W60AL VA
2330 Craddockville	0810 WKII-12 NC 263	W60AB WV
xltrs.	0830 WTVQ-11 NC 246	1004 WSET-13 VA
3 Tr 0810 WRET-36 NC	1210 W60AB WV	1300 WPGH-53 PA
0825 WCTI-12 NC	1215 Philly U's	1650 WKBD-50 MI
WPTF-28 NC	1523 Salisbury U's	1720 WTVS-56 MI
2040 WJJB-58 NJ	WVIR-29 in all	1827 WUHQ-41 MI
WJJB-50 NJ	day.	2308 W60AL VA
5 Tr 0705 WCTI-12 NC	2200 W42AC VA 66	W41AC VA
WPTF-28 NC	17 Tr 0845 WVIA-44 PA 160	2310 W74AU
0715 WJPM-33 SC	WBRE-28 PA 161	W79AX
0730 WSNL-67 NY	2020 WCTI-12 NC 269	28 Tr 0715 WBOC xltr
1100 W60AB WV	2135 WUAB-43 OH	on ch.26.
6 Tr 0020 W41AD VA	2205 WKII-12 NC 263	W25AA VA
Onanock	2245 WRET-36 NC 332	W60AL VA
(WJAR-3)	20 Tr 0115 WPGH-53 PA	W41AC VA
0026 W60AL VA	WPCB-40 PA	0720 Unid-64;
W41AC VA	0130 WITN-7 NC 257	CBS
W52AB VA	WUAB-43 OH 293	0900 WPTF-28 NC
7 Tr 0730 WVIA-44 PA	WAKR-23 OH 278	29 Tr 0750 WVIA-44 PA
0735 WARE-28 PA	WKEN-27 OH 238	2355 WXTV-41 NJ
0740 WKEN-27 OH	0150 WFMJ-21 OH 234	0010 WCMC-40 NJ
WYTV-33 OH	2000 WVPT-51 VA	0020 W35AB PA
0805 WLVT-39 PA	2245 WSET-13 VA	0417 WCEB-2 NY
0930 WPGH-53 PA	22 Es 2045 Unid-2; ABC	0710 WNEP-16 PA
0945 WUAB-43 OH	23 Tr 0800 WTVQ-11 NC	WBRE-28 PA
8 Tr 0915 WPTF-28 NC	WPTF-28 NC	WVIA-44 PA
WTVQ-11 NC	WCTI-12 NC	0808 WDAU-22 PA
Es 1815 KPRC-2 TX	0830 WVIR-29 re-	Scranton
1830 KTBS-3 LA	broadcasting	WLVT-39
		0845 WSNL-67 17

11-6 Tr 0805 WSNL-67 NY
WLIW-21 NY
WPTF-28 NC
9 Tr 2100 " "
WTVF-51 PA
WLVT-39 PA
14 Tr 0700 W25AA xlt-
ing WLYH.
WGIN-45 NC
WRET-36 NC
W35AB PA
0712 WSNL-67 NY
WLIW-21 NY
WXTV-41 NJ
WUNK-25 NC
0757 WPTF-28 NC
WTVF-11 NC
0800 WUNJ-39 NC
0820 W77AE T
12-1 Es 1730 Unided-2
1800 K----3
24 Tr 0010 W25AA
1800 WVPT-51 VA
29 Tr 0840 WKII-12 NC
0900 WVTI-30 CT
2200 W42AC VA
1-1 Es 1108 Unided-3
KPRC-2 T
KTEW-2 T
(Now KJRH)
1508 WBIR-2 T
9 Es 1800 Unided-2
11 Es 1340 Cuba-2 T
21 Tr 1655 WTAZ-29 PA
WKBS-48 PA
25 Tr 1200 WPTF-28 NC
WPGH-53 PA

The following report
is from Frank Merrill
and it is a very long
one. It covers DX
from 12-26-79 to the
present. I don't
mind typing up long
reports and I will if
I receive more but
how can a report that
goes way back to 1979
be of interest to any-
one? Reports in this
column should be curr-
ent and newsworthy.
Who wants to read som-
ething that happened 2
years ago?--wd.

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226 Tr 1446	<u>WRIP-61 465</u>	D28 Tr 2030	<u>KETC-9 600</u>	J18 Tr 0600-0700--	<u>KFVS-12,</u>
	<u>Chattanooga</u>		<u>WZTV-17</u>		<u>KIIN-12, KPLR-11,</u>
1447	<u>KTLJ-19</u>	2050	<u>KPLR-11</u>		<u>WKPC-15, WTV-36,</u>
1448	<u>WAAY-31 T</u>	2106	<u>KYFC-50 600</u>		<u>WKYT-27, WLEX-18,</u>
1449	<u>WZTV-17</u>		<u>Kansas City</u>		<u>WAND-17, WZTV-17,</u>
1453	<u>WBTI-64 180</u>		<u>KBMA-41 600</u>		<u>KMTC-27, KHIN-36,</u>
	<u>Cincinnati</u>	2115	<u>KLT stations</u>		<u>KEIN-32 & WGEN-10.</u>
1459	<u>WAAY-31 530</u>		<u>on chs. 15,</u>		<u>0743 KTTN-21 530</u>
	<u>Huntsville</u>		<u>29,38,52 &</u>		<u>Ft. Dodge</u>
1500	<u>WTCI-45 465</u>		<u>54.</u>	0800	<u>KETC-9, KCRG-9</u>
	<u>Chattanooga</u>	29 Tr 0057	<u>WCH-57 310</u>	0830	<u>WKZT-23, WKMU-</u>
1528	<u>WTVK-26 400</u>		<u>Hazard</u>		<u>21.</u>
	<u>Knoxville</u>	0132	<u>KEIN-32 620</u>	March	
1530	<u>WHNT-19 530</u>		<u>Council Bluffs</u>	31Tr 1700	<u>W27AC 20</u>
	<u>Huntsville</u>	0141	<u>W49AA 325</u>		<u>Bowling Green</u>
1533	<u>WDCN-8</u>		<u>Springfield</u>	May 1	
1559	<u>WDEF-12 465</u>	1905	<u>W58AG 195</u>	Tr 0534	<u>WJZ-13 MD</u>
	<u>Chattanooga</u>		<u>Georgetown</u>	10 Tr 2330	<u>WSFJ-52 135</u>
	<u>WHMA-40 570</u>	1907	<u>WKHA-35</u>		<u>Newark</u>
	<u>Anniston</u>		<u>WSVN-47</u>	29 Es 2026	<u>CKBI-5 1300</u>
1629	<u>WTVG-9 465</u>		<u>WKPI-22</u>		<u>Prince Albert</u>
	<u>Chattanooga</u>	2000	<u>Unided-48;</u>	2059	<u>KBME-3 900</u>
1630	<u>WBIR-10 400</u>		<u>xltr from</u>		<u>Bismarck</u>
	<u>Knoxville</u>		<u>SC but car-</u>	2100	<u>KFBB-5 1400</u>
1823	<u>WCYB-5 365</u>		<u>ried WLIO.</u>		<u>Great Falls</u>
	<u>Bristol</u>	2300	<u>WWVU-24 WV</u>	2200	<u>KOLT-3 820</u>
27 Tr 1044	<u>KBMA-41 600</u>	2327	<u>WDTV-5 WV</u>		<u>Dufaula</u>
	<u>Kansas City</u>	31 Tr 0134	<u>WTWO-2 240</u>	June	
1100	<u>KTSE-27 660</u>		<u>Terre Haute</u>	2 Es 0042	<u>CEWT-6 ME</u>
	<u>Topeka</u>	Ms 0401	<u>WBEM-2 IL</u>	0101	<u>CHSS-6 1170</u>
1130	<u>KCPH-19 600</u>	0501	<u>KCKN-2 ON</u>		<u>Wynyard</u>
	<u>Kansas City</u>		<u>Sanacraft</u>	0122	<u>KROS-5 1080</u>
1915-1930--All		Tr 0642	<u>WLVH-15 390</u>		<u>Yorkton</u>
WI educ. stns. +			<u>Lebanon</u>	0138	<u>KYB-4 940</u>
WXOW-19, KMEG-14		J4 Ls 2000	<u>KPXT-5 1140</u>		<u>Brandon</u>
and KDUB-40.			<u>Lubbock</u>	0155	<u>CFSS-3 SK</u>
2044 KMTG-27 MO		15 Tr 1358	<u>WJHL-11 370</u>		<u>Warmley</u>
2048 WKSO-29 KY			<u>Johnson City</u>	0158	<u>CKCK-2 SK</u>
2103 WSVN-47 VA		1400	<u>W39AB 380</u>	3 Es 1433	<u>KBTX-3 TX</u>
2330 KXNE-19 700			<u>Greenville</u>		<u>1500 KFDX-3, KOET-3</u>
	<u>Norfolk</u>	16 Tr 0258	<u>WJAX-12 330</u>		<u>2201 KID-3 ID</u>
28 Tr 0247	<u>WBMA-42 590</u>		<u>Peterborough</u>	4 Es 0118	<u>KNOP-2 NE</u>
	<u>Birmingham</u>	18 Tr 0722	<u>W38AB 400</u>		<u>(This report will be</u>
			<u>Ft. Madison</u>		<u>continued next mo</u>

THE R.F.S. MEXICAN TV LIST

by Ronald F. Schatz

The data herein has been gathered from Mexican media lists and personal monitoring during an extensive motor trip into Mexico in December 1980.

Chan.	Callsign	City & STATE	ERP	Network
2	XHIA	Torreón, COAH	30	L
	XEPM-TV	Cd. Juárez, CHIH	5	2
	XHCH	Chihuahua, CHIH	6	L-5
	XEW-TV	Mexico, DF	100	2
	XHAP	Acapulco, GRO	1.2	2
		Cd. Altamirao, GRO		R-XEW
	XHIR	Iguala, GRO	2.3	13
		San Jerónimo, GRO		R-XEW
	XEWO-TV	Guadalajara, JAL	75	2
	XHI-TV	Cd. Obregon, SON	86.45	L
	XHFA	Nogales, SON	1	13
	XHRIO	Matamoros, TAMPS	60	L
	XEFE-TV	Nuevo Laredo, TAMPS	60	L
	XHPM	Veracruz, VER	14.2	8
		Cordoba-Orizaba, VER		R-XHPM
3	XHBC	Mexicali, BC	100	L
	XHPN	Piedras Negras, COAH	6	L
	XHJMA	Parral, CHIH	15	L
		Guanajuato, GTO		R-XEZ
		Valle del Bravo, MEX		R-XEZ
		Huetamo, MICH		R-XEZ?
	XEFB-TV	Monterrey, NL	100	L
	XHDO	Oaxaca, OAX	5	2?
	XHP-TV	Puebla, PUE	30	8
	XEZ-TV	El Zamorano, QRO	100	2
	XHQ-TV	Culiacan, SIN	100	L
	XHCV	Coatzacoalcas, VER	12.23	2
	XHY-TV	Merida, YUC	100	L
	XHBQ	Zacatecas, ZAC	5.5	5
4	XHJCM	Aguascalientes, AGSC	14.3	13
	XELN-TV	Torreón, COAH	4	L-5
	XHAO	C. Tzontahuitz, CHIS	100	13
	XHIT	Chihuahua, CHIH	26	13
	XHTV	Mexico, DF	100	4
	XHAL	Acapulco, GRO	1.2	5
	XHG-TV	Guadalajara, JAL	88	L
	XHAF	Tepic, NAY	0.4	13
	XHBS	Los Mochis, SIN	11	2
		Cd. Obregon, SON		R-XHBS
	XHD-TV	Tampico, TAMPS	15	2
5	XHAQ	Mexicali, BC	51	L-13
	XHGE	Campeche, CAMP	36	13
	XHAE	Saltillo, COAH	8	2
	XHCC	Colima, COL	1	trm
		Cd. Guauhtenol, CHIH		R-XHFI
	XEJ-TV	Cd. Juárez, CHIH	67.4	L
	XHFI	Chihuahua, CHIH	6	2
	XHGC	Mexico, DF	100	5
		Guauajuato, GTO		R-XHZ
		Ixtlan del Rio, NAY		R-XHKG
	XHZ-TV	El Zamorano, QRO	100	5
	XHAJ	Las Lajas, VER	100	5

Chan.	Callsign	City & STATE	ERP	Network
6	XETV	Tijuana, BC	100	L
		Cd. Dalicias, CHIH		R-XHFI
	XEHL-TV	Guadalajara, JAL	84	L
		Toluca, MEX		trm
	XET-TV	Monterrey, NL	80	5
	XHTI	Puebla, PUE	3.6	13
	XEWB-TV	Hermosillo, SON	1.6	L-2
7	XHAD	Parras, COAH		R-XHAD
	XHBZ	Saltillo, COAH	10.62	5-XEFB
	XHAA	Colima, COL/Cd. Guzman, JAL	0.1	2
	XHDB	Tapachula, CHIS	0.4	2
		Durango, DGO	36	13
	, GTO		trm
	XEX-TV	Paso de Cortes, MEX	325	4
		Tejupilco, MEX		R-XHTV
	XHBN	Oaxaca, OAX	0.4	2
	XHBX	Chetumal, QR	2	2
	XHBT	Culiacan, SIN		L-5
	XHMZ	Mazatlan, SIN	72	L-5
	XHAB	Matamoros, TAMPS	316	2
	XHGO	Tampico, TAMPS	50	L
8	XHTX	Aguascalientes, AGSC	1.275	R-XHED
	XHBU	Tuxtla Gutierrez, CHIS	8.15	2
	XHTM	Cd. Jimenez, CHIH	0.8	2
		Mexico, DF	190	8
		Morelia, MICH		4?/trm
		Tepic, NAY		trm
	XHFN	Monterrey, NL		L
	XEUS-TV	Hermosillo, SON	1.6	
	XHBF	Navojua, SON	4.5	2
		Cordoba-Orizaba, VER	1.7	R-XHAH
	XHAH	Las Lajas, VER	316	2
	XHBD	Zacatecas, ZAC	5.5	2
9	XHBW	Monclova, COAH	5	2?
	XHKF	Colima, COL/Cd. Guzman, JAL	40	13
	XHGA	Guadalajara, JAL	81	5
	XEQ-TV	Paso de Cortes, MEX	316	2
		Tejupilco, MEX		R-XEW-TV
	XHTQ	Gueretaro, QRO	47.4	13(8?)
	XHTVL	Villahermosa, TAB	250	L
	XERV-TV	Reynosa, TAMPS		2
	XHPW	Tampico, TAMPS	50	L-5
	XHTP	Merida, YUC	55	2
10	XHK-TV	La Paz, BCS	8	L
	XHA-TV	Durango, DGO	0.85	2
	XHL-TV	Leon, GTO	150	L-2
	XHIE	Acapulco, GRO	82	13
	XHKW	Morelia, MICH	2	2
	XHKG	Tepic, NAY	0.5	2
	XHX-TV	Monterrey, NL	316	2
	XHBF	Cd. Obregon, SON		L
	XHTH	Hermosillo, SON	2.7	13
		Cordoba-Orizaba, VER		R-XHAI
	XHAI	Las Lajas, VER	325	4
		Concepcion del Oro, ZAC		R-XHBD

Chan.	Callsign	City & STATE	ERP	Network
11	XHO-TV	Torreón, COAH	12	2
	XBIPN	Mexico, DF	300	E
	XHDG	(Frontan), OAX	65	13
	XHDD	San Luis Potosí, SLP	40	13
	XHTK	Cd. Victoria, TAMP	0.4	2
	XHBR	Nuevo Laredo, TAMP	40	2
	XHBE	Coatzacoalcas, VER	125	13
	XHDH	Merida, YUC	80	13
12	XEWT	Tijuana, BC	66	L-2
	XHAN	Campeche, CAMP	16.8	L-2
	XHHH	Allende, COAH	0.1	trm
	XHMH	Parral, CHIH		L
	XHGTO	Durango, DGO		trm
	XHMAS	Guajuato, GTO	0.6	13
	XHHK	Salamanca, GTO	207	13
		Chilpancingo, GRO	2	2
		Huamantla, MICH		R-XHTV
	XHAW	Monterrey, NL	100	L
	XHIG	(C. Palma Sola), OAX	125	13
	XHGG	Les Mochis, SIN	7	L
		Puebla, PUE		trm?
	XHOW	Mazatlan, SIN	30	L-2
	XHAK	Hermosillo, SON	50	L
13	XHAG	Aguascalientes, AGSC	1.275	5
	XHDF	Mexico, DF	316	13
	XHJAL	Guadalajara, JAL	167	13
	XHCUR	Cuernavaca, MOR	9	13
	XHDE	San Luis Potosí, SLP	50	L
	XHBL	Culiacan, SIN	8.2	13
	XHLL	Villahermosa, TAB	7	2
	XHUT	Cd. Victoria, TAMP	0.3	5
	XHIC	Cofre-Perote, VER	100	13
	XHST	Merida, YUC	54	L
14	XHBM	Mexicali, BC	41.5	2
23	XHS-TV	Ensenada, BC	18	L
28		Monterrey, NL		trm
44	XHIJ-TV	Cd. Juarez		?

Guide to network symbols: 2--net-2 (originating at XEW-2); 4--net-4 (XHTV-4); 5--net-5 (XHGG-5); 8--net-8 (XHTM-8); 13--net-13 (XHDF-13); R--relay; L--local origination; E--educational; trm--Television Rural de Mexico net.

TECHNICAL TOPICS



Q: "I know that there are a few different theories about what causes E-skip, but what's the connection with thunderstorm activity?"

A: Many ionospheric propagation experts felt that there is a connection between heavy thunderstorm activity and the formation of intense E-skip areas in the E region of the ionosphere. The causes, or more precisely, the "triggering mechanism" of sporadic-E skip, sometimes seem related to the earth's surface weather. The mechanism of E-skip is still not completely understood. However, it does tend to take place at the same time of the year (spring and early summer) that certain types of violent weather does in the middle latitudes. The North American E-skip "season" often gets underway at roughly the same time that the tornado season starts; many researchers felt that this happens far too often to be a coincidence. It has been found that the more intense E-skip activity, especially the day-long, high-MUF (maximum usable frequency) openings in the U.S. Midwest can almost always be connected with severe thunderstorm activity at or near the mid-points of the E-skip signal paths. The type of weather system in concern is usually a large summer-type thunderstorm associated with a low pressure area and containing very large "thunderheads" reaching to 50,000 to 60,000 feet above sea level. That's not your "typical" thunderstorm, but is not uncommon at middle latitudes at this time of year. Usually, such a storm can be found in a "tornado watch" area, and contains, in addition to the tornado and high wind potential, large amounts of hail and electrical activity in the form of lightning discharges.

Q: "So how can thunderstorms cause E-skip? The storms are only a few miles high--and the E-skip clouds are supposed to be at very high altitudes, such as sixty miles or more. Isn't that too far away for any kind of direct connection?"

A: Severe thunderstorms have been found to contain high altitude wind shear activity somewhat similar to the type of wind shear that one theory states is the key to the cause of sporadic E-skip. Such thunderstorms also contain strong electric charges, and an ionization potential (as lightning scatter can demonstrate), so it seems possible that a large system of severe thunderstorms, even though located at an altitude that's only a fraction of that of the E-skip "clouds," may indeed have a kind of "ripple effect" on the ionospheric E layer. The problem is that there is a lack of hard evidence to connect thunderstorms to areas of intense E-skip.

Q: "Is there any way to take advantage of this apparent link between E-skip and severe thunderstorms, such as using weather maps to predict Es openings in a specific part of the country?"

A: Much remains to be learned about the connections between weather and sporadic E-skip, and our understanding of the exact mechanism that brings about Es is still rather limited. Still, when you consider that there does seem to be a relationship, however complex and undefined, it makes it worthwhile for the DXer to be aware of where areas of intense thunderstorms may be expected on a particular day during the May-to-July E-skip season. You can make use of the morning weather maps on the TV networks' news programs--and if available in your area, don't miss PBS' "A.M. Weather." Remember that you can expect E-skip to take place over a path that has the area of severe weather in the center. You'll soon notice certain patterns developing, and you may even start to devise your own methods for forecasting Es openings to some extent. You won't be able to predict openings 100% of the time, but you'll soon begin to recognize the kinds of days when it might be wise to stay close to the DX shack. One curious effect you may note is the fact that many Es openings will appear to start with areas being affected by severe thunderstorms being logged first. This is one of the more mysterious aspects of E-skip observed by DXers--one that has yet to be satisfactorily explained.

IN SEARCH OF PSB

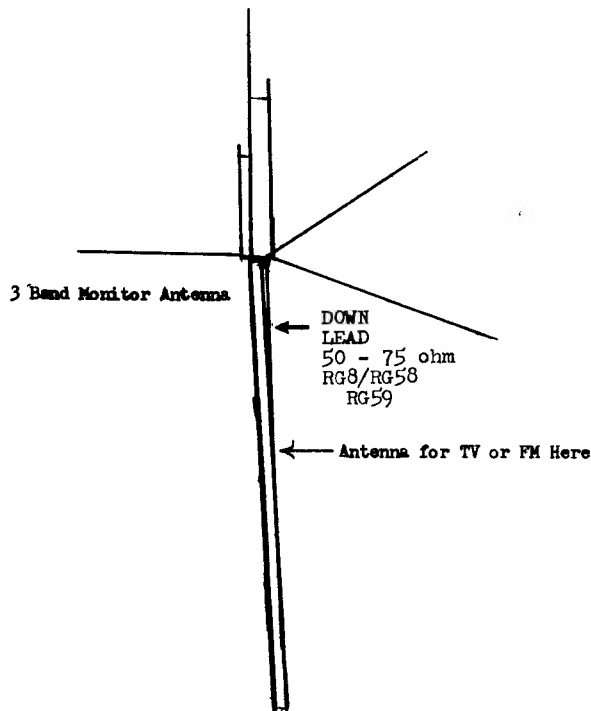
Donald L. Blevins
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Baltimore, MD 21221
phone 301-574-2714

IN SEARCH OF PSB...The Basic DX Set-Up: This month's feature will focus in on the basic set up. The most basic portion of this set up is the antenna. Although the typical scanner owner operates his rig with a screw in whip supplied with the rig, for the DX, one should consider being hooked up with an outside antenna. Outside antenna overcome several problems:

- 1) Loss of signal due to aluminum siding
- 2) Loss of signal due to body capacitance(demonstrated by moving about the room to improve the performance of a scanner)
- 3) Loss of signal due to shortened length of antenna on low band or excess length on UHF (screw in whips are typically 18" in length ideal for VHF-High Band)

Of course an outside antenna does provide advantages over a screw in whip due to the fact it is above the ground, away from aluminum siding, and more typically a better match electrically. Several avenues of thought are to be considered if you are if you are setting up a monitoring post. Of course you may just want to get better local coverage, in which case these suggestions should only enhance this goal.

The first thing to consider is the frequency range of the stations you wish to monitor. This factor determines the size of the antenna, which in turn has to be balanced against the physical limitations and the cost of the particular set up. Here is a typical mid-range (\$) set up for the space conscious.



Since the beginning of my hobby, a great deal of change has take place in the public safety communications field. I started my set up with a Lafayette PF 50 single band low band reciever and a dual band antenna. Frustrated with poor selectivity, I aquired a Lafayette PF 300. This reciever provided a great deal of pleasure, but left me with a poor idea where I was on the dial. Keep in mind PSB is narrow band FM and therefore tuning for an exact frequency can be an extreme'y frustrating experience.

Within the appearance of scanners on the scene exact frequency was no longer a problem. Sensitivity is, as a general rule, twice as good and no better frequency stability can be achieved. However then came along the cost of crystals. At \$5 a frequency, DX'ing got to be expensive coupled with the idea agencies are constantly changing frequencies.

Deliverence, however, was just around the corner. The programmable scanner was indeed a godsend. Placing before the DX'er the availability of any given frequency in a frequency range along with search, the PSB DX'ers dream machine finally arrived. The adventure of locating frequencies where no previous information had been available revolutionized this exciting hobby.

Now lets get down to brass tacks and talk about an adventurous undertaking. The world of PSB DX'ing with an outdoor antenna has expanded my horizons of 20 miles of local listening to Pennsylvania, Delaware, Virginia and West Virginia for about 70 miles of pleasurable listening. During an type of tropo opening, this range is expanded to New York, New Jersey, Virginia (southeastern Virginia around Norfolk), and on occasion, North Carolina. Skip seems to come in better with an outside antenna. You might compare the difference between a screw in whip and outside antenna the same way as TV rabbit ears and outside antenna.

With a 6 element beam and a TV preamp, DC is no problem. Without this antenna, DC simply cannot be managed with some type of opening. Keep in mind PSB stations rarely run more than 500 watts, vertically polarized, since the area they service is small and recievers are ultra sensitive, compared to other modes of communications.

Your local terrain plays an important role in range of reception, considering low power, high frequency signals tend to be generally line of sight. Tropo will extend local reception unbelievably. An opening has very frequently been responsible for mobile reception at 60 miles.

As with TV tropo, each band seems to be effected a little bit differently. UHF seems to show signs first, VHF high second, and low band last. However, openings can occur first on either of the bands initially. This generally means the higher band is not propagating as well, or the opening has allready moved down in frequency.

#####

William R. Hepburn
5659 Highland Avenue
Niagra Falls, ON
CANADA L2G 4X2

reports: NOAA WEATHER STATIONS

Now on the Air:

Flagstaff, AZ	162.40
Bakersfield, CA	162.55 (part time)
Merced, CA	162.55
Bedding, CA	162.55 (part time)
Clewiston, FL	162.40
Macon, GA	162.475
Marion, IL	162.475
Cedar Rapids, IA	162.475
Sioux City, IA	162.475
Waterloo, IA	162.55
Chanute, KA	162.40
Hagerstown, MD	162.475
Houghton, MI	162.40 (WKK-73)
Columbia, MO	162.40

MOBE NEXT MONTH
ON NOAA WEATHER UPDATE!

GIVE more info to:
IN SEARCH OF PSB

ONLY YOU can prevent
listener disinterest!

UNCLE SAM WANTS YOU!
to contribute to IN SEARCH
OF PSB!!!!!!!

QSL CORNER

Thomas J. Yingling, Jr.
221 Pinewood Road
Baltimore, MD 21222

FM-QSL

- NF CBNM 90.3 Marystown, % CBN-AM Radio, P. O. Box 12010, Stn. A, Kenmound Rd, St. Johns, NF A1B 3T8. Letter from P. J. Hall, Transmitter Technican, Card back for CBN for CBNM reception. QSL card signed by F. H. Holm. Holbrook
 GA WDEM 105.3 Macon, 173-1st., P. O. Box 46, 31202. Letter from Aaron Bowers, PD. Zank
 WMTM 93.9 Moultrie, P. O. Box 788. Letter from Douglas J. Turner, Owner. Zank
 IL WVJC 89.1 Mt. Carmel, 2200 College Dr, 62863. Form letter from CE, & from Frank E. Parcells, Mgr with bumper stickers, window sticker & several items on broadcasting & technical courses at Wabash Valley College. Zank
 WDLN 89.3 East Moline, P. O. Box 149, 61244. Letter from Glenn Rogerson, CE & a program schedule was send. Zank
 MI WJOX 106.1 Jackson, 1700 Glennshire Dr, 49201. Letter from Paul Wright, CE, received a reply back in 2 weeks. Ross
 MN KKOK 95.7 Morris, Box 231, 56267. Letter back from Maynard R. Meyer, CE. Holbrook
 KODE 92.1 Waseca, 222 N. State St, 56093. Letter from Ron Gaines, Operations Managers Holbrook
 WYRO 92.1 Little Falls, 62 E. Broadway, 56345. Letter from Joseph M. Benson, former NRC member. Holbrook
 OK KRRO 92.1 Ardmore, Box 911, 73401. Letter from Jim Redmond, PD in 11 days. George
 RI WBRU 95.5 Providence. Letter from Craig Healy, Technical Advisor, member of NRC, They share transmitter site of WHJY-FM & WHIM-AM. Cooper
 TX KMGC 102.9 Dallas, 1353 Regal Row, 75247. Letter from John R. Adcock, CE & a 2 year old window sticker & ask if I got KVIL, KPLX & KTXO. Chernos
 KAFM 92.5 Dallas, 12700 Park Central Dr, suite 512, 75251. Verie & bumper sticker send after I called them collect (their request line when Es was in) reply from Jerry Taylor. Hascall
 KRLV 93.7 Houston, 2630 Fountainview Dr, 77057. Letter from Ellis Terry, CE in one week. Hascall
 KTEP 88.5 El Paso, UTEP, 79968. Letter from William L. Hall, CE. Zank
 KBID 92.9 Wichita Falls, Box 1794, 76307. Letter from Vernon Beck, who returned my postcard after follow-up report. Holbrook
 KORO 100.7 Abilene, Box 2201, 79604. Letter from Dave Martin. Holbrook
 KESS 93.9 Ft Worth, 661 Seminary South, Box 6195, 76115. Nice letter from E. J. Pryor, jr., Dir. of Eng. Also send 2 head shaped stickers of an Spaniard, the station has a Spanish music format. Chernos
 KMEZ 106.3 Dallas, 9900 McCree Rd, Box 38146, 75238. Short, but nice letter from Dave O'Brien, Operations Mgr, enclosed a really nice desk thermometer. Chernos
 KSET 94.7 El Paso, 4180 N. Mesa, 79912. Letter from Mark Ross, disc jockey on duty at the time of my reception, replied in 6 weeks. Said "I trust that the Dir. of Eng. send a confirmation & some of the other pertinent information which you had asked for." (He did not!) Wood
 KINT 97.5 El Paso, 5959 Gateway West, 79925. Letter in one month from Jhani Kays, Ops Dir. Wood
 WV WEMM 107.9 Huntington, 703-3rd. Ave, 25701. Letter & coverage-maps from David S. Johnson, Corporate Engineer. Eddie
 WI WIXX 101.1 Green Bay, 115 S. Jefferson St, 54301. Letter & a cloth frizbe & stickers from Dennis Mentzos, Mgr. He ends the letter as "the best of luck to a good neighbor to the North (!!! - I am south of Green Bay, such ignorance) Chernos
 Reporter: this all fm qsl month are the following: Hank Holbrook of Chevy Chase, MD; Neil G. Zank of Lincoln, NE; Robert S. Ross of London, Ont; Ernest R. Cooper of Provincetown, Ma; Dave Hascall of Fortville, IN; Saul Chernos of Toronto, Ont; Richard E. Wood, Ph.d of Cape Girardeau, MO; Richard Eddie of St. Louis, MO. This was a big month for Texas that I had waiting to be typed-up. Remember, send in your QSL card copies for printing, so that everybody can see that prize QSL you've got.

I will send back to you the QSL after I copy it at work for printing in this column.....
New reporter of Charles George of Dallas, TX that I forgot.....73'4..Tom Yingling.....

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